

## INTERNATIONAL SEARCH REPORT

International Application No

PC/EP2005/000934

## A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 A61K38/18 A61P37/02 C12Q1/68 G01N33/68 C12Q1/00

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 A61K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EP0-Internal, BIOSIS, EMBASE, PAJ, WPI Data, Sequence Search

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	DATABASE EMBL [Online] Mus musculus axotrophin mRNA, complete cds. 15 June 1999 (1999-06-15), HAENDEL ET AL.,: "Insertional mutagenesis of a novel gene, axotrophin, causes callosal RT agenesis and neural degeneration" XP002338547 Database accession no. AF155739 abstract	8
X	DATABASE EMBL [Online] Hypothetical protein FLJ12911 (Axotrophin) 1 March 1999 (1999-03-01), XP002338548 Database accession no. Q9H992 Homo sapiens abstract	8
----- -/--		

☒ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

## \* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier document but published on or after the International filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

"Z" document member of the same patent family

Date of the actual completion of the international search

2 August 2005

Date of mailing of the international search report

12.08.05

Name and mailing address of the ISA

European Patent Office, P.B. 5918 Patentlaan 2  
NL - 2280 HV Rijswijk  
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,  
Fax: (+31-70) 340-3016

Authorized officer

Mateo Rosell, A.M.

## INTERNATIONAL SEARCH REPORT

International Application No

PCT/EP2005/000934

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	DATABASE EMBL [Online] Axotrophin (March 7 protein) 1 November 1999 (1999-11-01), XP002338549 Database accession no. Q9WV66 Mus musculus abstract	8
X	----- RAMALHO-SANTOS M ET AL: "Stemness: transcriptional profiling of embryonic and adult stem cells" SCIENCE, AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE,, US, vol. 298, no. 5593, 18 October 2002 (2002-10-18), pages 597-600, XP002327804 ISSN: 0036-8075 cited in the application table 1	8
X	----- DATABASE Geneseq [Online] 26 June 2001 (2001-06-26), "Human protein sequence SEQ ID NO:17375." XP002338550 retrieved from EBI accession no. GSN:AAB95234 Database accession no. AAB95234 abstract & EP 1 074 617 A (RESEARCH ASSOCIATION FOR BIOTECHNOLOGY; HELIX RES INST) 7 February 2001 (2001-02-07)	8
X	----- DATABASE Geneseq [Online] 12 February 2004 (2004-02-12), "Human MP53 protein sequence SEQ ID NO:59." XP002338551 retrieved from EBI accession no. GSN:ADF69089 Database accession no. ADF69089 abstract & WO 03/083047 A (EXELIXIS, INC; BELVIN, MARCIA; FRANCIS-LANG, HELEN; FRIEDMAN, LORI; PL) 9 October 2003 (2003-10-09)	8
X	----- DATABASE Geneseq [Online] 20 January 2003 (2003-01-20), "Human polypeptide SEQ ID NO 1612." XP002338552 retrieved from EBI accession no. GSN:ABP69565 Database accession no. ABP69565 abstract -/--	8

## INTERNATIONAL SEARCH REPORT

International Application No

PCT/EP2005/000934

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	-& WO 02/070539 A (HYSEQ, INC; TANG, Y., TOM; ZHOU, PING; GOODRICH, RYLE, W; ASUNDI, VINO) 12 September 2002 (2002-09-12) abstract page 1, line 30 - page 5, line 20 page 49, line 14 - page 54, line 30 page 210; sequence 1612 -----	1-20
A	YAMASAKI SHINSUKE ET AL: "Characterization of a gene expressed in layer 5 of the neocortex." NEUROSCIENCE RESEARCH SUPPLEMENT, no. 26, 2002, page S109, XP008050575 & 25TH ANNUAL MEETING OF THE JAPAN NEUROSCIENCE SOCIETY; TOKYO, JAPAN; JULY 07, 2002-JULY 09, 2003 ISSN: 0921-8696 abstract -----	1
P,X	METCALFE S M ET AL: "Transplantation tolerance: gene expression profiles comparing allotolerance vs. allorejection" INTERNATIONAL IMMUNOPHARMACOLOGY, ELSEVIER, AMSTERDAM, NL, vol. 5, no. 1, January 2005 (2005-01), pages 33-39, XP004678650 ISSN: 1567-5769 the whole document -----	1-20
T	METCALFE S M ET AL: "Leukaemia inhibitory factor (LIF) is functionally linked to axotrophin and both LIF and axotrophin are linked to regulatory immune tolerance" FEBS LETTERS, ELSEVIER SCIENCE PUBLISHERS, AMSTERDAM, NL, vol. 579, no. 3, 31 January 2005 (2005-01-31), pages 609-614, XP004725165 ISSN: 0014-5793 the whole document -----	1-20

# INTERNATIONAL SEARCH REPORT

International application No.  
PCT/EP2005/000934

## Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☒ Claims Nos.:  
because they relate to subject matter not required to be searched by this Authority, namely:  
see FURTHER INFORMATION sheet PCT/ISA/210
2. ☐ Claims Nos.:  
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:  
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

## Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Continuation of Box II.1

Although claims 1,6 (6b) are directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition

.Although claims 5,12-14,16,17,19 are directed to a diagnostic method practised on the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.

## INTERNATIONAL SEARCH REPORT

International Application No

Information on patent family members

P EP2005/000934

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
EP 1074617	A	07-02-2001	AU 6180800 A	19-02-2001
			AU 6180900 A	19-02-2001
			AU 6181000 A	19-02-2001
			AU 6181100 A	19-02-2001
			AU 6181200 A	19-02-2001
			AU 6181300 A	19-02-2001
			AU 6181400 A	19-02-2001
			AU 6181500 A	19-02-2001
			AU 6181600 A	19-02-2001
			AU 6315800 A	19-02-2001
			CA 2380472 A1	08-02-2001
			EP 1074617 A2	07-02-2001
			EP 1205549 A1	15-05-2002
			WO 0109315 A1	08-02-2001
			WO 0109345 A1	08-02-2001
			WO 0109316 A1	08-02-2001
			WO 0109349 A1	08-02-2001
			WO 0109317 A1	08-02-2001
			WO 0109318 A1	08-02-2001
			WO 0109319 A1	08-02-2001
			WO 0109346 A1	08-02-2001
			WO 0109320 A1	08-02-2001
			WO 0109321 A1	08-02-2001
			WO 0109322 A1	08-02-2001
			WO 0109323 A1	08-02-2001
			JP 2002171977 A	18-06-2002
			JP 2002191363 A	09-07-2002
			US 2003157569 A1	21-08-2003
			US 2003082776 A1	01-05-2003
			US 2003017480 A1	23-01-2003
WO 03083047	A	09-10-2003	AU 2003213606 A1	13-10-2003
			AU 2003216482 A1	16-09-2003
			AU 2003223207 A1	16-09-2003
			AU 2003224638 A1	16-09-2003
			CA 2448112 A1	12-12-2002
			CA 2449479 A1	12-12-2002
			CA 2460944 A1	01-05-2003
			EP 1402051 A2	31-03-2004
			EP 1402262 A2	31-03-2004
			EP 1438432 A2	21-07-2004
			JP 2004532638 T	28-10-2004
			JP 2005514906 T	26-05-2005
			JP 2005506844 T	10-03-2005
			WO 02098889 A2	12-12-2002
			WO 02098468 A1	12-12-2002
			WO 02098891 A2	12-12-2002
			WO 02099068 A2	12-12-2002
			WO 03035831 A2	01-05-2003
			WO 03083047 A2	09-10-2003
			WO 03074662 A2	12-09-2003
			WO 03073823 A2	12-09-2003
			WO 03074674 A2	12-09-2003
			US 2003138431 A1	24-07-2003
			US 2003165966 A1	04-09-2003
			US 2003215849 A1	20-11-2003
			US 2003219795 A1	27-11-2003

BEST AVAILABLE COPY

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/EP2005/000934

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
WO 02070539	A	12-09-2002	US 6783969 B1	31-08-2004
			CA 2440257 A1	12-09-2002
			EP 1381621 A2	21-01-2004
			WO 02070539 A2	12-09-2002
			WO 03029405 A2	10-04-2003
			US 2003032034 A1	13-02-2003
			US 2004053250 A1	18-03-2004
			US 2004005592 A1	08-01-2004
-----				